Data Privacy and Security: Reflections on Construction Management Research

Carrie Sturts Dossick, Ph.D., P.E.

Bio

Dr. Carrie Sturts Dossick holds the John E. Schaufelberger Endowed Professorship in Construction Management and serves as Associate Dean of Research in the College of Built Environments at the University of Washington. She directs the Communication, Technology, and Organizational Practices (CTOP) Lab within the Center for Education and Research in Construction (CERC) and holds an adjunct appointment in Civil and Environmental Engineering. Her research, spanning over two decades, focuses on emerging collaboration methods and technologies including Building Information Modeling (BIM), Virtual Reality, and Digital Twins. Recent projects include the Building Owner Assessment Tool (BOAT), NSF-funded cybersecurity research, an I-90 Bridge Digital Twin pilot, and development of the Project BIM Requirements Module for the National BIM Standard U.S. with NIBS. She is an active member of the National Institute of Building Sciences' Digital Technology Council and serves on the National BIM Standard-US Planning Committee. Her research has been supported by the National Science Foundation, Charles Pankow Foundation, and industry partners.

Abstract

This presentation will reflect on my own experience as well as the state of the practice in research in construction management, where we often partner with industry organizations. In the field of construction management, researchers need to consider several aspects of data governance that go beyond those typically considered in human subjects research. When partnering with companies and government institutions and collecting data from these organizations, we need to consider intellectual property, cybersecurity, and corporate risks. This talk will shed light on our current understanding of data governance and risk management from the perspective of external industry partners, both private companies and public institutions. We will discuss current and emerging issues as well as best practices.